

THE UNIVERSITY OF WISCONSIN-MILWAUKEE
College of Engineering and Applied Science

FACULTY MEETING

Friday, December 7, 2018 10:30 a.m. EMS E180

MINUTES

The meeting was called to order at 10:31 a.m. with Dean Brett Peters presiding.

PRESENT: Professors Abu-Zahra, Armstrong, Avdeev, Boyland, Bravo, Chang, Church, Cuzner, Dumitrescu, Ghorbanpoor, Goyal, Hanson, Helwany, Hosseini, Hu, Law, Li, Liao, Liu, Lopez, Ma, Misra, Munson, Niu, Nosonovsky, Otieno, Pashie, Petering, Peters, Qin, M.Rahman, Ranji, Reisel, Rohatgi, Salowitz, Seifoddini, Stern, Sung, Suzuki, Tabatabai, L.Wang, W.Wang, Xu, D.Yu, J.Yu, Z.Yu, Zhang, J.Zhao, T.Zhao, Zheng

EXCUSED: Professors Amano, Mali, Sobolev, Tabatabai, Venugopalan, Y.Wang

GUESTS: N. Fouad, J. Martell

I. DEAN UPDATE

Dean Peters reviewed the new budget model. A formula based on student credit hours, various research metrics, bachelor's degrees awarded, graduate tuition in the unit, and indirect cost returns (which will now have 80% distributed to the college) is to be used to create an unadjusted revenue value. At the campus level, the unadjusted values will be adjusted to account for such things as the cost of delivering a particular program, past investments, and the role of the unit in the mission of the campus. For CEAS, the preliminary unadjusted budget value for FY20 was \$12.8M. This was then adjusted to \$16.3M, which is similar to the FY19 budget of \$16.0M. However, as marginal tuition in CEAS is down more than anticipated this year, the adjusted budget value may be further adjusted.

There are some important takeaways from this process. The adjustment was very large, and it is possible that over the next several years the tolerance for such large adjustments at the campus level may diminish. There will be new costs to be covered by CEAS, including TA fringe benefit increases, salary increases, and a lack of future cost sharing on proposals from the campus level. These costs need to be accounted for in the FY20 budget.

II. ANNOUNCEMENTS

A. J. Martell provided faculty with two reminders:

- a. Data security training is mandatory annually. If you have not already taken the training, do so as soon as possible. If you have student workers who have not taken the training, have them take it as well. Ms. Martell can assist you if you need the link to the training.
- b. If you have changed health care plans or are new to the system, please update the coordination of benefits.

B. The Order of the Engineer ceremony is December 15 at 2 PM in the Union's Wisconsin Room.

C. Research Support Survey – D. Yu

There were 27 responses to the research support survey. Responses indicated that the CEAS research support team has areas of improvement. Many of these center on communication to the faculty on the types of support available and on potential funding opportunities. Details on the survey results can be found at <https://www.surveymonkey.com/results/SM-55X8LNW5L/>

D. Update on Males Allies and Advocates Project – N. Fouad and E. Munson

Three workshops were held for interested males on campus in September. 128 faculty and staff signed up for the workshops, including the Chancellor, Provost, and all male deans. The workshops were conducted by a team from North Dakota State University and Auburn University. In these workshops, the participants learned about the implicit and explicit biases that face women in the academic workforce. Moving forward, CEAS plans to hold two meetings per semester to explore the issues in greater depth and to work towards finding solutions to existing problems involving the CEAS climate towards women. The campus looks towards having a workshop for male advocates as its next step in this project.

III. INFORMAL REPORTS – See Attachment 1

IV. DETERMINATION OF THE PRESENCE OF A QUORUM FOR FACULTY MEETING

As 49 voting faculty members were present, a quorum was present.

V. AUTOMATIC CONSENT BUSINESS

A. Minutes of the November 2, 2018 meeting

B. New Course – See Attachment 2

C. Graduation

"The faculty recommends to the Board of Regents those students whose names are submitted by the Office of the Registrar as having completed the requirements for the degree of Bachelor of Science in their respective majors."

VI. NEW BUSINESS

A. Ph.D. Transcript Designation (from GPSC) – See Attachment 3

**CEAS FAC. DOC.
NO. 258**

Prof. Boyland moved approval of the proposal for discipline-specific transcript designations for the Ph.D.

The motion was approved on a voice vote.

VII. GENERAL DISCUSSION – None

VIII. ADJOURNMENT

Meeting Adjourned at 11:20 a.m.

John R. Reisel, Secretary
CEAS Faculty

JRR
Attachments

INFORMAL REPORTS

Office of Student Services – Todd Johnson

See the Fall enrollment numbers on the following page.

Career Services – Juli Pickering

No Report

Curriculum Committee – Prof. A. Rahman

The Curriculum Committee initiated a discussion of the feasibility and the potential benefits to consider offering an accelerated-sequential in a 7-week format during regular semesters and summer sessions. This format will be targeting outstanding students who are interested in early graduation and a rewarding and challenging honors educational experience in a small class setting.

Departments are encouraged to initiate such a discussion and identify core courses that can be suitable for such a model. The goal of such initiative is to improve the average overall graduation rate in CEAS, and to improve recruiting of outstanding students from area high schools who might overlook UWM for another school. This group of students can see the value in an engineering honors program, and transcript designation that can place them at an advantage for future employment.

Graduate Program Subcommittee – Prof. Liao

No Report

Academic Planning Committee – Prof. Abu-Zahra

APC will be conducting its departments and programs assessment in its December 14th meeting. Department chairs are expected to provide their self-assessment reports to APC chair by November 27th. Meanwhile, APC continues to discuss the new campus financial model and its implications on CEAS operating budgets and department allocations with Dean Peters. Finally, APC will be electing a new chair for the remainder of 2018/2019 in its December meeting.

Faculty Senate – Prof. Reisel

The Senate passed revisions to a number of committee charters to facilitate participation of the Division of General Studies on those committees. In addition, procedures for allowing remote distance participation by Senators from the College of General Studies were approved.

**College of Engineering & Applied Science
Headcount Enrollment by Year-in-School
Fall Semester 2012-2018**

	2012	2013	2014	2015	2016	2017	2018
UGRD	1,632	1,596	1,751	1,792	1,825	1,906	1,915
Freshmen	306	240	273	276	262	279	305
Sophomore	357	315	295	323	375	378	363
Junior	289	338	348	345	344	398	362
Senior	668	684	742	807	835	845	881
Special	12	19	93	41	9	6	4
GRAD	404	420	448	449	442	428	408
Master	185	206	213	234	223	202	195
Doctoral	209	193	210	201	205	212	200
Non-Degree	10	21	25	14	14	14	13
Grand Total	2,036	2,016	2,199	2,241	2,267	2,334	2,323

**College of Engineering & Applied Science
Headcount Enrollment by Program
Fall Semester 2012-2018**

	2012	2013	2014	2015	2016	2017	2018
UGRD	1,632	1,596	1,751	1,792	1,825	1,906	1,915
Applied Computing						1	24
Biomedical Engineering					44	88	131
Civil Engineering	294	277	261	250	254	273	302
Computer Engineering	122	102	102	120	113	109	97
Computer Science	221	208	222	252	312	372	387
Electrical Engineering	252	249	280	271	262	236	228
Industrial Engineering	86	95	100	90	96	96	95
Materials Engineering	35	45	59	56	58	58	55
Mechanical Engineering	525	532	570	640	609	612	547
Undeclared	97	88	157	113	77	61	49
GRAD	404	420	448	449	442	428	408
Biomedical Informatics PhD	24	23	26	21	22	21	21
Computer Science MS	50	47	55	64	52	47	52
Engineering MS	135	159	158	170	171	155	143
Engineering PhD	185	170	184	180	183	191	179
Non Degree	10	21	25	14	14	14	13
Grand Total	2,036	2,016	2,199	2,241	2,267	2,334	2,323

Source: UWM Office of Assessment and Institutional Research
Comparison of Enrollment Dashboard: Annual Final Report

<https://uwm.edu/institutional-research/report-enrollment-comparison-of-enrollment/>

NEW COURSE

COMPSCI 745

HEALTH BIG DATA PROCESSING PLATFORMS, 3 cr. G

Study of big data processing techniques in healthcare. Jointly offered and counts as a repeat of HCA 745

Prereq: HCA 741(P) or CompSt 751; Grad St or cons instr

Ph.D. in Engineering Program

Proposal to Make All Majors Areas of Concentration Transcript-Designated
Approved by CEAS GPSC on October 24, 2018

Action Requested

The Ph.D. in Engineering program has several “major areas of concentration”, corresponding to the departments and department-like bodies of CEAS. Under UWM policy, these major areas of concentration are one of the many types of submajors found in UWM’s graduate degree programs and they are not currently transcript-designated.

The CEAS Faculty now request that all major areas of concentration of the Ph.D. in Engineering be made transcript-designated.

Compelling reasons for transcript designation

Due to the diverse technical areas in engineering and common practice by most engineering institutions in the US, it is important that an area of major concentration be listed in a student’s academic records. This will describe the student’s background better and will enhance employment opportunities for the student. Transcript designation also allows UWM to configure its graduate application system so that students apply to the specific concentration, which is good for attracting applicants and allows better tracking of students in UWM’s student information systems.